ANNUAL REPORT

OF THE

AGRA MEDICAL SCHOOL

FOR THE YEAR 1939-40

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Review of the report of the Agra Medical School for the year 1939-40 by the Inspector General of Civil Hospitals, United Provinces

Part I—Men's Section

Lieut.-Col. J. C. Bharucha, M.R.C.S., L.R.C.P., D.P.H. (LONDON), L.M. & S. (BOMBAY), D.O.M.S. (ENG.), I.M.S., held charge of the Principalship during the year.

2. The following table shows the number of students in the School during the year under review (1939-40) as compared with the year 1938-39 :

Year	Number on the rolls	Classification of students		
		Military class	Civil class	Private class
1938-39	267	2	265	..
1939-40	270	2	268	..

3. The following table shows the disposition of students during the year 1939-40 as compared with the preceding year 1938-39 :

Year	Number on the rolls	Number passed	Number removed	Number left or re-signed otherwise	Number died	Number did not join	Number on the rolls at the end of the year
1938-39 ..	267	45	..	4	..	..	218
1939-40 ..	270	45	..	3	..	..	222

4. The total number of students increased by 3 during the year. Fourteen students reverted to the first year to join the M.B., B.S.

5. The pre-medical test examination of candidates was held in the first week of August as in the year 1938-39.

6. Sixty-three candidates applied for admission to the School at the commencement of the session. Of these 5 were B. Sc. and B. A. passed and 48 I. Sc. passed.

7. Of the 270 students on the rolls of the School 237 were Hindus, 31 Muslims, and 2 Indian Christians.

8. Two hundred and sixty-three students belonged to the United Provinces, 5 to the Delhi Province, and 2 to the Punjab.

9. Four thousand, eight hundred and forty-nine operations were performed during the year in the presence of students, against 4,815 in the year 1938-39.

10. Sixty-four thousand, seven hundred and sixty-eight out-door patients were examined and treated before students against 69,287 in the year 1938-39, and 378 labour cases were conducted against 446 in the year 1938-39.

11. The Clinical Society had a very successful 4th year of its existence. Sixteen meetings were held during the year, of which 6 were addressed by students, 2 by members of the staff and 8 by distinguished visitors.

12. A refrigerating developing plant has been purchased, and fitted up to carry out constant temperature development of X-ray films.

13. Girl students have been admitted to the Medical School, Agra, and are studying side by side with men students.

14. In accordance with the recommendations of the Medical Re-organization Committee appointed by Government, it has been decided to raise the Medical School, Agra, to the standard of a degree college from the next session. The question of its affiliation with the Agra University is under consideration.

15. Lieut.-Col. J. C. Bharucha, I.M.S., has continued to take a keen interest in the welfare of the students and the institution. He has maintained discipline and has endeavoured to improve the standard of teaching.

16. The charge of the Thomason Hospital, which is attached to the School was held by Captain S. Ahmad from 1st April to 3rd August, 1939, and by Major M. R. Sinclair, I.M.S., from 5th August, 1939 to 31st March, 1940.

17. The following statement shows the figures of in-door and out-door patients treated in the Hospital during the calendar year 1939:

	1938	*1939*
In-door	6,505	6,748
Out-door	69,731	68,655

18. An Iron Lung was supplied to the Hospital through the generous gift of Lord Nuffield.

19. A new Phillips X-Ray plant was also installed in the Hospital.

20. Five hundred and fourteen major and 738 minor operations were performed during the year under review.

21. In the female section 316 medical, 274 surgical and 682 midwifery and gynaecology cases were treated during the year.

22. Three thousand, three hundred and forty-one dental cases were treated including 1,565 extractions.

23. Both Captain S. Ahmad, I.M.S., and Major M. R. Sinclair, I.M.S., did much to improve the running of the Hospital.

Part II—Medical School for Women

24. Dr. U. F. M. Morton, M.D. (LONDON), W.M.S., held charge of the Principalship throughout the year 1939-40.

25. At the opening of the session there were 58 students.

26. The following table shows the disposition of students as compared with the years 1937-38 and 1938-39 :

Year	Number on rolls	Number passed	Number removed	Number resigned	Number left other-wise	Number died	Number on roll at the end of the year
1937-38 ..	98	16	..	..	14	..	68
1938-39 ..	68	10	..	..	1	..	57
1939-40 ..	58	14	..	..	5*	..	39

* The students were transferred to the Men's Medical School. Two left on account of ill-health.

27. Of these 58 students, 22 were Christians, 28 Hindus, 5 Muhammadans, and 3 Sikhs.

28. There were 1,426 maternity cases during the year as against 1,614 in the year 1938-39.

29. The general health of the students throughout the year under review has been satisfactory.

30. In accordance with the recommendations of the Medical Re-organization Committee the Women's Medical School, Agra, has been closed down since 1st May, 1940. Ten seats have been reserved for lady students at the new Medical College, Agra.

31. Dr. U. F. M. Morton deserves to be congratulated on the enthusiasm with which she discharged her duties during the year.

T. C. BOYD, COLONEL, I.M.S.,
Inspector General of Civil Hospitals,
United Provinces.

Annual Report of the Agra Medical School for the year 1939-40

I—Staff

(1) *List showing the names of the staff with their academic qualifications and their duties in the Medical School, Agra*

Serial no.	Name	Academic qualifications	Duties in the Medical School, Agra	Whole-time, part-time, honorary
1	Lieut-Col. J. C. Bharucha, I.M.S.	M. R.C.S., L.R.C.P., D.P.H. (Lond.), L.M.&S. (Bomb.), D.O.M.S. (Eng.).	Principal, Lecturer in Clinical Medicine.	Whole-time.
2	Captain Sayeed Ahmad, I.M.S.	F.R.C.S. (Eng.)	Civil Surgeon, and Lecturer in Clinical Surgery.	Part-time.
3	Major M. R. Sinclair, O.B.E., I.M.S.	M.A., Ch.B. (Camb.), M.R.C.S.		
4	Dr. Sitangshu Nath Chatterji.	L.M. (Rotunda), L. R.C.S. (Edin.).	Lecturer in Midwifery and Gynaecology.	Whole-time.
5	Dr. Gokul Narain Vyas.	M.D., M.R.C.P. (Edin.), F.S.M.F. (U.P.).	Lecturer in Medicine	Do.
6	Dr. Tikam Singh Shukla.	M.B., B.S., D.O.M.S. (Lond.), D.O. (Oxon).	Lecturer in Ophthalmology.	Do.
7	Dr. Chandra Bhan Singh.	F.R.C.S. (Eng.) ..	Lecturer in Surgery and Operative Surgery.	Do.
8	Dr. Prem Nath Wahi.	M.D., M.R.C.P. (Lond.).	Lecturer in Pathology.	Do.
9	Dr. S. S. Godbole	M.B., B.S. ..	Lecturer in Anatomy	Do.
10	Dr. Rajendra Vir Singh.	M.B., B.S. ..	Lecturer in Anatomy	Do.
11	Dr. Narendra Singh.	M.B., B.S. ..	Lecturer in Physiology.	Do.
12	Dr. Hari Krishna Rastogi.	M.B., B.S., M.R.C.P. (Lond.), T.D.D., (Wales).	Lecturer in Physiology.	Do.
13	Dr. Wahid Uddin	M.B., B.S. ..	Lecturer in Medical Jurisprudence.	Part-time.

Serial no.	Name	Academic qualifications	Duties in the Medical School, Agra	Whole-time, part-time, honorary
14	Dr. Avadh Behari Lal Mathur.	M.S., M.F. F.S., M.F. (U. P.).	Lecturer in Materia Medica.	Whole-time.
15	Dr. Mohan Lal ..	M.B., B.S., D. P. H., (Luck).	Lecturer in Hygiene	Part-time.
16	Dr. K. N. Gour ..	M.B., B.S., M.R., C.P. (Edin), F.R.F. P.S.G., D.C.H., R.C.P.S. (Eng.), D.P.H.	Lecturer in Hygiene	Part-time.
17	Dr. Banarsi Das ..	M.B., D.P.H. ..	Lecturer in Mental Diseases.	Do.
18	Dr. Aon Muhammad Khan.	M.S. (Luck.) ..	Lecturer in Minor Surgery.	Do.
19	Dr. Wahid Uddin ..	M.B., B.S. ..	Lecturer in Minor Surgery.	

(2) *List showing name of staff with their academic qualifications and their duties in the Thomason Hospital attached to the Medical School, Agra*

Serial no.	Name	Academic qualifications	Duties in the Thomason Hospital, Agra.	Whole-time, part-time, honorary
1	Lieut.-Col., J. C. Bharucha, I.M.S.	M.R.C.S., L.R.C.P. D.P.H. (Lond.), D.O.M.S. (Eng.).	Incharge of 41 beds of Medical wards. Incharge of 7 Medical beds of female wards and beds in Infectious wards.	Part-time.
2	Major M. R. Sinclair, O.B.E., I.M.S.	M.A., Ch.B. (Camb.), M.R. C.S.	Incharge of 36 beds in Surgical wards and 13 beds in O'Meara wards. Incharge of 7 beds in female wards.	Whole-time.
3	Dr. Gokul Narain Vyas.	M.D., M.R.C.P., (Edin.), F.S.M.F. (U. P.).	Incharge of 36 beds of Medical wards. Incharge of 7 Medical beds of female wards. Instructions in Medical Out-patient department thrice a week.	Part-time.
4	Dr. Sitangshu Nath Chatterji.	L.M. (Rotunda), L.R.C.S., (Edin.).	Incharge of 18 Gynaecology beds. Incharge of Gynaec. Outdoor.	Do.
5	Dr. Tikam Singh Shukla.	M.B., B.S., D.O.M.S. (Lond.), D.O. (Oxon.).	Incharge of Ophthalmic Department.	Do.
6	Dr. Chandra Bhan Singh.	F.R.C.S. (Eng.) ..	Incharge of 31 beds of Surgical ward and 14 beds in O'Meara wards. Incharge of 17 Surgical beds of female wards. Instructions in Surgical Out-patient department thrice a week.	Do.

Serial no.	Name	Academic qualifications	Duties in Thomason Hospital, Agra	Whole-time, part-time, honorary
7	Dr. Wahid Uddin	M.B., B.S. ..	Incharge Medical Out-door. Assistant to Civil Surgeon.	Whole-time.
8	Dr. Aon Muhammad Khan.	M.S. (Luck.) ..	Resident Medical Officer ..	Do.
9	Dr. B. W. Lyall	M.B., B.S. ..	Incharge of Women's and Children's Out-door for General diseases and Surgical Registrar.	Part-time.
10	Dr. Satgur Dayal	M.B., B.S. ..	Medical Officer-in-charge, X-Ray Department.	Do.
11	Dr. M. S. Kapoor	M.B., B. S. ..	Anaesthetist	Whole-time.

Under orders contained in G. O. no. 2025/V—327, dated the 15th July, 1939, Medical Department, to the Inspector General of Civil Hospitals, United Provinces, the 27 Surgical beds in the O'Meara ward have been distributed half and half between the Civil Surgeon and the Lecturer in Surgery to teach the students on these beds.

II—Students

(1) *Sex of students*—Male and female both for L.S.M.F., and M.B., B.S. classes.

The Government having sanctioned admission of 10 girl students, 2 girl students were admitted to the M.B., B.S. class. The intermediate classes having been discontinued in the Women's Medical School, three girl students were transferred in the year under review for the L.S.M.F. course.

(2) *Maximum number of new admissions annually* :

United Provinces (including 10 girls)	50
Delhi Province	2

(3) *Age limit high and low for students on admissions*—Not less than 17 and not more than 21.

(4) *Standard of general education required on admission to the school*—Intermediate with the Medical group of subjects, viz. Chemistry, Physics and Biology of the Board of Intermediate and High School Education, United Provinces, or of a University of the United Provinces which is equivalent to or higher than the above-mentioned examination.

In order to give an opportunity to the candidates who appear for the pre-medical test at the King George's Medical College, Lucknow, but are not selected, the usual date of holding the pre-medical test examination has been shifted to the first week of August.

As the Government order for raising the minimum educational qualification to Intermediate Science with the medical group of subjects was received in the end of July, there was not sufficient time for the candidates to apply in large number and consequently the following number applied for admission to the School at the commencement of the session :

(1) B. Sc. and B. A. passed		..	..	5
(2) F. Sc. passed	..	..	..	58

Statement showing the number of candidates admitted in the Agra Medical School with their educational qualifications

Year	Number admitted	B. Sc. students	Number of inter-mediate passed with Chemistry and Physics	Number who have attended the College one or two years	Number of High School passed	Total
1935 ..	48	..	8	19	21	48
1936 ..	51	2	16	18	15	51
1937 ..	50	2	18	18	12	50
1938 ..	51	..	22	15	14	51
1939 ..	50	2	48	..	..	50

(1) *Other matters relating to students*—At the opening of the session 50 students were admitted by a competitive examination to the civil class and two were re-admitted making a total of 52 as detailed below :

On the closing of 2nd year class in the Women's Medical School, Agra, three girl students were transferred to this institution.

Particulars	F.S.M.F. class				M.B., B.S. class		Total
	4th year	3rd year	2nd year		1st year		
			Male	Female	Male	Female	
Military ..	2	..	..	..	..	..	2
Civil	65	61	89	3	48	2	268
Total ..	67	61	89	3	48	2	270

Of the 270 students, 237 were Hindus, 31 Muslims and 2 Indian Christians. Two hundred and sixty-three belonged to these provinces, 5 to Delhi Province and 2 to Punjab.

Removals—Total number 48 as detailed below :

Forty-five passed the Final Licentiate Final Examination both in October, 1939 and April, 1940, and left the School as qualified.

Three civil students left of their own accord and 14 reverted to 1st year to join the M. B., B. S. class.

Thus on 30th April, 1940, in the School the following number of students remained :

Particular	L. S. M. F. class					M.B., B.S. class				Total
	4th year	3rd year		2nd year		2nd year		1st year		
	Boys	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	
Military ..	1	..	..	..	..	..	..	..	..	1
Civil ..	68	60	2	28	1	19	1	41	1	221
Total ..	69	60	2	28	1	19	1	41	1	222

(2) *Attendance*—This was on the whole very satisfactory.

III—Examinations

(1) The preliminary educational qualification having been raised to the Intermediate Science with the medical group of subjects, the Licentiates Primary Examination ceased since October, 1939.

(2) *Proportion of students who took all the subjects at the Final Examination, Part II*—Out of 53 students, 39 took all the subjects at the Final Examination, Part II, held in April, 1940.

(3) *Results* :

I—Examinations held in October, 1939

Details of examinations	Number appeared	Passed with Honours	Passed with credit	Passed	Failed
1. Licentiate Final Examination, Part II.	29	..	..	11	18
2. Licentiate Final Examination, Part I.	31	..	1	16	14
3. Licentiate Intermediate Examination.	34	..	..	19	15

2. *Examinations held in April,* 1940

FINAL EXAMINATION, PART II

Particulars	Number appeared	Number passed	Percentage of pass
Medicine	45	34	75·5
Surgery	45	33	73·3
Midwifery and Gynaecology	44	31	70·5

Total number passed out—34.

FINAL EXAMINATION, PART I

Particulars	Number appeared	Number passed	Percentage of pass
Pathology	41	30	73·1
Hygiene	30	23	76·6
Medical Jurisprudence	27	22	80·5

Number passed in all subjects and promoted to 4th year—29.

INTERMEDIATE EXAMINATION

Particulars	Number appeared		Number passed		Percentage of pass	
	Boys	Girls	Boys	Girls	Boys	Girls
Anatomy	50	2	33	1	66	50
Physiology	43	..	32	..	74·4	..
Materia Medica ..	44	2	31	1	70·5	50

IV—Financial

Cost to Government or to the body responsible to the School per student per annum in the School—

(i) The total expenditure on the School for the year 1939-40 was Rs.1,24,473.

(ii) The average number of students on the roll was 248·25.

(iii) The average cost to Government each student per annum in the School was Rs.439·35 as compared with Rs.315·83 last year.

Teachers whose duties are partly clinical and partly academic have been charged 80 per cent. to the School, although the provision of pay and teaching allowances exist in the School budget which is quite separate from the hospital budget.

Out of the average of 248·25 students, there were on an average 1·50 military students.

The percentage of military students paid for by the Government is 0·62 while the gurdians of the rest of the students paid the usual school fees of Rs.30 per annum for 2nd, 3rd and 4th year students and Rs.120 for 1st year students. The school fee was enhanced to Rs.120 per annum and hostel fee to Rs.48 per annum since last year for the new entrants only.

V—Equipment

Number of sanctioned beds in the Thomason Hospital, Agra, attached to the Medical School, Agra—Three hundred and eighteen. Of these 281 are reserved for teaching and the remaining 37 (9 European ward, 6 Indian private wards and 22 Infectious ward) are not for teaching purposes.

Average number of in-patients—315·47.

Average number of confinement cases per annum during the last three years—396·5.

VI—Teaching and Practical Training

Organic Chemistry

Classes in Organic Chemistry have been discontinued this year as the minimum qualification for admission was raised to Intermediate Science with Medical group of subjects.

Anatomy

Syllabus for the teaching of Anatomy has been raised and brought to the same level as that of the King George's Medical College, Lucknow, and is in force since last four years.

Revision classes for failed students together with weekly examinations in prescribed sections of the subject(?)

Dissection

Forty-six dead bodies (41 injected with colour and 5 without colour) have been utilized by the students this year.

Owing to dearth of dead bodies, candidates cannot be given parts for practical dissection in the final examination. Attempts will be made to provide bodies for this purpose.

The old injection room has now been suitably altered and fitted with dissecting tables to serve as a preparation room for dissected specimens.

Museum

The museum is now suitably altered, provided with a gallery all round, with a row of shelves both in the top and lower sections and a spiral staircase leading to the upper section. The whole has been painted white so as to provide the maximum lighting effect. Two cupboards fitted into the wall have been suitably altered to accommodate embryology models and specimens.

The museum specimen jars are now properly sorted out and accommodated on separated shelves under proper heads.

Embryology section

Lectures in general embryology have as usual been given and revision of the subject has been materially assisted by demonstrations on lantern slides.

Laboratories

The experimental physiology laboratory has been shifted from the old site to the room which till recently housed the pathology museum. Now there are 29 experimental seats.

Chemical Laboratory—A new chemical laboratory has been fitted up in the old experimental laboratory room with 48 working seats. Each seat is provided with necessary apparatus, and reagents for the student to carry out experiments individually in Chemical Physiology.

Histology laboratory continues to provide sufficient accommodation for histological work. There are 46 seats, each equipped with microscope, and stains, and other necessary histological apparatus.

Staff

The staff was supplemented by the temporary appointment of Dr. H. K. Rustogi, M.R.C.P. (Lond.), P.M.S., as Associate Lecturer in Physiology from 14th November, 1939.

Teaching

First year—A one-hour lecture and two hours practical class has been held on each day of the week for the first year M. B. students. This has permitted a full consideration of the theoretical aspect of the subject as well as has given time to the students to perform all necessary experimental chemical, and histological works for themselves individually. The class consists of 62 students, of which 60 are boys and 2 girls.

Second year—Separate lectures, practicals and tutorials, for the second year L. S. M. F. students have been held in practically double the number than required by the State Medical Faculty, United Provinces.

Individual students of the second year L. S. M. F. batch also did all practical experiments (experimental, chemical and histological).

Demonstrations were held in the micro-projection room on each practical class day.

Pharmacology

Lectures to the 2nd year students were given twice a week during the whole session. This year no lectures in Pharmacology were given to the 1st year students.

Practical classes for the 2nd year students were held twice a week in two batches.

Demonstrations on the various pharmaceutical processes were given to the students and also in the identification of crude drugs. The action of important drugs on heart and blood vessels was demonstrated to the students jointly by the lecturer of Pharmacology and Physiology in the Physiology department, where there is complete equipment now for this purpose.

There is a part-time lecturer and a part-time demonstrator in this department.

Pathology

Staff—During the last year again there were only two men on the permanent staff, Lecturer and Demonstrator. Dr. Satgur Dayal, P.S.M.S. (the Assistant Lecturer), has been holding collateral charge as Assistant Lecturer in Pathology and Medical Officer-in-charge X-Ray department. The work of the X-Ray department is itself increasing and he had hardly been available for department work. On the other hand the clinical work in the department (shown in a subsequent list) has been going up very much every year, and it has meant tremendous strain on the staff. The number of pathological examinations done in the department in 1930 was 3,779 while this year's figures are 15,852, which are 3,480 more than last year. It is with relief that one is looking forward to the proposed increased staff from 1941.

Teaching—The overdue demand of extending the course to two years has been met and from 1941 the course of Pathology will be extended over two years. The total number of lectures delivered to cover the prescribed syllabus has almost been double the prescribed course. The laboratory has been extended and is now fully equipped with 44 seats each provided wth a microscope (including oil immersion lens). The students carry on practical work in blood films, stool, urine, elementary bacteriology, section cutting, staining and microscopical examination of pathological tissues. The usual histology boxes and

practical note books with named diagrams of the findings were maintained. Special tutorial classes and weekly examinations were held for the failures.

The epidiascopic slides of which the department now possess a full set has been a great asset in teaching.

Facilities were given to the students of the Women's Medical School for studying in our practical laboratory and museum.

Post-mortems—The total number of post-mortems performed during the year under review were 17. Inadequacy of the number of post-mortems performed has always been a difficult problem to solve. Post-mortem room is the place where real teaching in Pathology should be done by co-relating the morbid processes with physical signs and symptoms during life. Teaching is very much handicapped owing to this number of post-mortems available. Further the number of specimens added to museum too is far too little.

The students maintained a special post-mortem examination report book where they enter their post mortem notes.

Pathology Museum, 1939-40—The whole museum has been overhauled. Most of the specimens have been remounted and the old unshaply rounded jars have been replaced by uniform rectangular jars. Over 100 new specimens have been added, and some of the specimens, added are rather rare. The medico-legal section is steadily expanding. Stands have been provided for epidiascopic slides.

The museum was reclassified and new descriptive catalogue has been prepared and is available for students bound in three volumes. Separate catalogue has been prepared for epidiascopic slides. The catalogue will be printed next year when the museum has been housed in its new building.

The new museum building will be ready at the beginning of the next session. It is very essential that the number of specimens should increase.

Museum is the most essential part of the teaching of Pathology. It is a living text-book of Pathology and as such the capacity of a teaching institution can be and is estimated in part by the efficiency of its museum. With the re-organization of the staff, provision has been made for a modeller and an artist whose services are necessary for expansion of the museum.

Equipment—The department is equipped to undertake almost all laboratory tests that are done in a modern laboratory. A separate fully equipped bio-chemical laboratory is being started under a Biochemist, where all the bio-chemical examinations will be carried out.

Microscopes—The department had 52 microscopes out of which 45 are for the exclusive use of the students.

Laboratory techniques—The techniques used have been revised and were the same as detailed last year.

Pathological examinations—The number of Pathological examinations carried on in the department has reached a high figure. The following statistics bear out the increase in the work of the department during the last ten years :

Year	Number of chemical examinations done
1930-31	3,779
1931-32	4,103
1932-33	3,220
1933-34	2,877
1934-35	5,252
1935-36	6,122
1936-37	8,469
1937-38	12,303
1938-39	12,372
1939-40	15,852

The figures for this year are as follows :

Widal re-action examination	234
Wassermann test	945
Blood, urine, stool and sputum examinations	14,405
Auto-vaccines	32
Report on pathological tissues	165
Pathological post-mortems held and demonstrated to students.	17
Blood sugar tests	54

Research

My last year's remark holds true for this year too. The whole staff consisted of two permanent men who had to carry on over 15,000 pathological examinations besides taking regular lectures and practical classes. Under the circumstances it is obvious that no research work was done this year.

Medical Jurisprudence

The staff of this department consists of a part-time lecturer who is Assistant to Civil Surgeon, Agra.

Forty lectures were delivered and practical instruction in examination on injured, and post-mortem examination on the dead bodies were given.

Post-mortems performed this year—81.

Injury cases examined this year—377.

Students attend at least 12 post-mortems and keep notes of at least six of them which they perform in the presence of their lecturer.

Hygiene

The staff consists of a lecturer who is a part-time officer and School Health Officer of Agra.

Teaching and practical training in Hygiene consist of:

Thirty lectures in Hygiene.

Eight demonstrations.

Outdoor instructions in sanitary works, water-works, disposal of night soil and rubbish, etc.

A separate room has been provided for the Hygiene Museum, which contains 159 models and is up to date for teaching purposes.

Medicine

The revised syllabus and courses of studies in Medicine have been approved by the Government in G. O. no. 2571, dated the 24th September, 1938.

Lectures by the Lecturer of Medicine consisted of:

Fifty lectures on Systematic Medicine.

Ten lectures on Therapeutics.

Daily bedside clinics were taken by the Principal for 4th year students and by the Lecturer for the 3rd year students.

Combined clinic once a week, where all the final year students collect and interesting cases are discussed and demonstrated, were continued in addition to the usual demonstrations which were carried out.

The Principal gave 53 clinical lectures during the year.

The Lecturer in Medicine also demonstrated cases of infectious diseases in the Hewett Infectious Hospital.

Surgery

Teaching, according to the revised syllabus, which has been approved by the Government in G. O. no. 2571, dated the 24th September, 1938, saw its continuation and the vast subject was compressed in two sets of 50 lectures delivered by the Lecturer in Surgery. The method of combined weekly clinic was found very popular and continued like last year. Ten lectures in ear, nose, and throat and 20 practical demonstrations in operative surgery were given by the Lecturer in Surgery. The practice of everyday bedside clinics to the students was continued.

Additional clinical material was available by the addition of the emergency ward beds, thus teaching was facilitated on Traumatology and venereal and infectious diseases. In addition, clinics were given thrice a week in the surgical out-patient department to the 3rd and 4th year students.

In the equipment, the whole set of fracture treatment and appliances as practised by Bohler, was provided and fractures are being treated on the most modern and advanced technique.

Twelve lectures on anaesthesia, general and local were given by the Assistant Lecturer in Anaesthesia. Opportunities were given to the students to induce anaesthesia both local and general under the direct supervision of the Assistant Lecturer in Anaesthesia. One thousand, two hundred and eighty-five operations were performed, of these 518 were major. During this year the gas and oxygen anaesthesia was more frequently used in suitable cases, although combined chloroform and ether inhalation remained the commonest method as it is the cheapest.

Ophthalmology

In addition to the usual 25 lectures, the teaching has again this year greatly increased due to the increased number of practical demonstrations.

	Number of operations		
	1937–38	1938–39	1939–40
Major	710	860	858
Minor	750	949	744

Special facilities were provided by holding most of the operations during the hours, students worked in the department.

Up-to-date facilities in practical demonstrations are provided with the modern type of appliance, i.e. slit lamp with binocular microscope, the latest type of Listen's Perimeter, self-luminous test type, etc.

Midwifery and Gynaecology

Staff—Consists of only one lecturer.

Instructions by Lecturer of Midwifery and Gynaecology consist of :

(1) Fifty lectures both in Midwifery and Gynaecology.

(2) Eight lectures in Ante-natal Hygiene and care of new-born infant.

(3) Bedside clinic in Maternity and Gynaecology cases in wards.

(4) Demonstrations on patients in Gynaec. Out-patients Department and anti-natal and post-natal care, three days in a week.

(5) Students write up the history sheets of gynaecological cases and waiting labour cases which are allotted to them and they are corrected by the Lecturer.

(6) Combined clinics were given once a week in which all Final year students attended.

Three hundred and seventy-eight full-term cases were conducted before the students during the year (these do not include cases of abortion). Of these 53 cases were abnormal the details of which are as follows :

Caesarian sections	.. ..	16
Forceps	.. ..	9
Craniotomy	.. ..	4
Internal versions	.. ..	1
Breech	.. ..	16
Placenta Praevia	.. ..	4
Retained Placenta	.. ..	1
Prolapsed placenta	.. ..	2
	Total ..	53

Fourth year students attended the normal cases in small batches, each student in his turn conducting not less than six cases and witnessing six cases. Abnormal cases were conducted and discussed by the Lecturer in presence of all students.

No facilities have yet been provided for the management of premature babies and instructions regarding the management and treatment of diseases of new-born babies could not be satisfactory due to lack of nursing staff.

The number of cases confined (full term) during the last three years is as follows :

——	Normal	Abnormal	Total
1937-38	331	34	365
1938-39	403	43	446
1939-40	325	53	378

The number of labour cases have decreased a little which is due to the fact that the beds are limited and extra beds were not allowed to be put up this year as was done in previous years. Another thing is that in previous years students were not allowed to conduct a case who used to pay Rs.5 as confinement charges. This year it has been discouraged and only those cases were admitted which could be conducted by the students. The gynaecological cases and operations have increased a lot and students had better facilities of gynaecological teaching. Lots of fresh specimens have been added to the museum.

Clinical Laboratory

There is a Clinical Laboratory in Thomason Hospital under the school administration. Students working in the wards do all their clinical examinations under the supervision of Assistant Lecturer in Medicine.

Clinical Society

The Society continued to function with enthusiasm throughout the year. Sixteen scientific meetings were held of which 6 were addressed by students, 2 by members of the staff and 8 by distinguished visitors.

Students attended the meetings in large numbers and were initiated into the clinical discussions which followed the reading of papers.

The Clinical Society magazine has been steadily growing in popularity. As usual two six-monthly issues were published containing 39 original articles apart from notes, reviews and miscellaneous matters. An outstanding departure this year has been the publication of a "Kidney Number" which was widely appreciated.

X-Ray

Dr. Satgur Dayal, P.S.M.S., Assistant Lecturer of Pathology, continued to hold charge of the department, during the year. The transfer and installation of the radiographic and electro-therapeutic equipments from the old to the new building was carried out. Fluoroscopic arrangement in the new Watson's X-Ray unit besides economizing the use of X-Ray films has been utilized for the diagnosis of various diseases based on modern radioscopic methods, and fracture setting under direct vision is possible now. The provision of an Infrared treatment set has been beneficially used for patients. A refrigerating X-Ray developing plant has been purchased and fitted up to carry out constant temperature development of X-Ray films. There has been a further increase in the number of cases attending the department as shown below :

Year	Number of electrical treatments	Number of radiograms	Number of radioscopic examination
1936-37	167	2,221	..
1937-38	249	2,985	..
1938-39	277	3,120	..
1939-40	709	2,988	459

Thus the increasing demand of radiological and electrological facilities for clinical investigation and treatment of patients necessitates the provision of whole-time staff to fulfil the requirements completely.

Library

Since the transference of the Library from the old building into the examination hall its popularity has grown from year to year.

Nineteen books of recent editions were purchased this year.

There was no post-graduate course for the training of the M. S. M. F. class this year.

Sports

The sports and athletic activity has been very much marked last year. The outstanding feature has been the appointment of an Athletic Director, who gives regular coaching to the students in gymnastic exercise as well as sports.

The results of this appointment are already obvious as is evident from the large number of students who come to the field and Gymnasium for exercise.

Field sports—The School teams were entered in the Triangular sports. Two of our boys got first prizes, Javelin throw and hammer throw. Two of our boys were selected to represent the Agra District in Provincial Olympic sports at Cawnpore. The annual sports were held in December. The interest taken by the students is increasing every year as was evident by large entries this year.

There was a tie for the sports championship, Umar Ahmad Khan and Mathura Parshad Yadava scoring equal points. They were awarded special medals.

Football was as popular as last year's and school formed a fairly strong eleven. The Colonel Bharucha Triangular Football Tournament run by the Medical School was a very popular event and was won by the St. John's College.

Hockey was a very popular game this year and the School had a fairly strong side. We took part in almost all the local tournaments and were the runners-up in the Raja Surya Pal Singh Memorial Tournament. The Ram Pal Memorial Triangular Hockey Tournament organised by the Medical School was won by Agra College.

Cricket reached the highest pitch of standard during the year under review. Sunday matches formed a regular feature, and we played friendly matches with a large number of outside teams. Major M. R. Sinclair, I.M.S., is a member of the School eleven and was an asset. The Colonel Bharucha Triangular Cricket Tournament between Agra College, St. John's College and Medical College was played for the first time this year. This was the most popular event of the year as could be judged by the vast crowd that used to witness the tournament. Medical School won the tournament defeating St. John's College. Six of our players played in College verses the Rest Tournament and one of our players, Major Sinclair, captained the College's team which won the silver cup.

Tennis has been very popular. A third net has also been started this year. Girl students have also been provided with facilities to play tennis.

Badminton and Tourniquet have been again popular and two courts of each are run.

Gymnasium was more popular this year and boxing has also been introduced since the arrival of the Physical Instructor.

Competition in gymnastic exercises and wrestling were held this year.

Volleyball has been regularly played. The team was pretty strong and some interesting matches were played this year. *Basket-ball* will be introduced from the next year.

Indoor games.—Ping-pong, carrom, chess, draughts, etc., have been very popular and regular tournaments were played in these.

Prize distribution.—The annual prize distribution day was held on 23rd January, 1940. Nawab Dr. Sir Muhammad Ahmad Sa'id Khan of Chattari presided over the function. The staff and students were "At Home" to the guests.

The details of this year's award of prizes are tabulated as follows :

Serial no.	Examination	Detail of prize	Subject of prize	Name of the prize winne
1	Licentiate Final Examination.	Silver Medal ..	General proficiency	Saileshwar Mittra.
		Bronze Medal ..	Ditto ..	Shiri Kant Shukla.
		All-India Medical Licentiates' Association O'Meara Gold Star.	Obtaining highest number of marks.	Saileshwar Mittra.
		All-India Medical Licentiates' Association Rahman Silver Medal.	Surgery ..	Dwarka Nath Shivapuri.
		Rai Sahib Dr. Lekh Raj Singh's Silver Medal.	Ophthalmology ..	Dwarka Nath Shivapuri.
		All-India Medical Licentiates' Association Mactaggart Gold Medal.	Clinical Medicine ..	Shiri Kant Shukla.
		Narain Silver Medal presented by Dr. S. L. Varma for a Kayasth student.	Medicine ..	Vinod Behari Lal Varma.
		Nobin Chandra Chakravarti Memorial Silver Medal.	Do.	Shiri Kant Shukla.

Serial no.	Examination	Detail of prize	Subject of prize	Name of the prize winner
		All-India Medical Licentiates' Association Cochrane Silver Medal.	Midwifery and Gynaecology.	Saileshwar Mittra.
		Pandit Lakshmi Ram Pandya's Silver Medal.	Clinical Medicine and good conduct.	Shiri Kant Shukla.
		Book	Competitive prize in Medicine.	A. C. Dikshit.
		Do.	Clinical Surgery ..	Dwarka Nath Shivpuri.
		Do.	Competitive prize in Surgery.	Saileshwar Mittra.
		Do.	Competitive prize in Ophthalmology.	Saileshwar Mittra.
		Do.	Clinical Miwifery and Gynaecology.	Saileshwar Mittra.
		Do.	Competitive Prize in Midwifery and Gynaecology.	Saileshwar Mittra.
2	Licentiate Final Examination, Part I.	All-India Medical Licentiates' Association Ram Sarup Silver Medal.	Pathology ..	Bhawani Parshad Kakar.
		Book	Clinical Pathology..	Bhawani Prasad Kakar.
		Do.	Competitive prize in Pathology.	B. N. Baijal.
		Do.	Hygiene ..	Rameshwar Nath.
		Do.	Competitive prize in Hygiene.	Ramesh Chandra.
		Do.	Medical Jurisprudence.	Ramesh Chandra.
		Do.	Competitive prize in Medical Jurisprudence.	Ramesh Chandra.
		Do.	General Proficiency in the Final Examination, Part I.	Bhawani Parshad Kakar.
3	Licentiates' Intermediate Examination.	Silver Medal ..	General proficiency	Nawal Kishore.
		All-India Medical Licentiates' Association Sarju Parshad Silver Medal.	Anatomy ..	Vinod Behari Lal Mathur.

Serial no.	Examination	Detail of prize	Subject of prize	Name of the prize winner
		All-India Medical Licentiates' Association Colonel Bharucha Silver Medal.	Physiology ..	Vinod Behari Lal Mathur.
		Book	Anatomy ..	Vinod Behari Lal Mathur.
		Do.	Competitive prize in Anatomy.	Vinod Behari Lal Mathur.
		Do.	Physiology ..	Vinod Behari Lal Mathur.
		Do.	Competitive prize in Physiology.	Afzal Ahmad.
		Do.	Competitive prize in Materia Medica.	Vinod Behari Lal Mathur.
		Do.	Materia Medica ..	Gajraj Singh Tiagi.
4	Special Prizes.	Colonel Bharucha Special Prize for the best studen of the School for the year 1939-40.	..	Saileshwar Mittra.
		Rai Bahadur Dr. B. N. Vyas' Gold Medal prize to the best student n the School in study and in sports for the year 19 9-40.	..	Y. K. R. Wakhley.

Hostel—As last year one hostel with accommodation for 160 students was maintained.

The hostel library has been very popular.

The restaurant and the radio room have been very popular throughout the year.

The School by the year 1939-40 has entered the 87th year of its existence.

The following are the few important items of the administration of the School :

(1) The course of study has been raised from four to five years.

(2) The entrance qualification has been raised from Matriculation to the Intermediate standard with the Medical group of subjects and a batch of 52 students was admitted last year under the new scheme.

(3) Government have sanctioned that out of 50 admissions to the School every year, 10 students will be reserved for lady students and if 10 lady students are not forthcoming then vacant places will be filled by men students.

(4) Further 14 students of the 2nd year class who passed this basic qualification were allowed to sacrifice their one year's training and were reverted to the first year to begin afresh under the College scheme.

(5) Course and standard of study is on the lines of M. B., B. S., degree qualification.

(6) Extra staff was sanctioned for these students for a temporary period till permanent staff for the College is appointed.

(7) The tuition fee for the new entrants has been raised from Rs.30 to Rs.120 and hostel rent from Rs.12 to Rs.48 per annum.

(8) Government *Communiqué*, Medical Department no. 337/V—472, dated Lucknow, the 16th February, 1940 :

> "In continuation of the *Press Communiqué* of 7th November, 1939, it is hereby notified for the information of all concerned that Government have now finally decided to raise the Agra Medical School to a degree and are taking steps to implement the decision."

During the year under review, 52 fresh admissions were made in August, 1939. Only those who have passed the Intermediate with Medical group of subjects were admitted. Among these new admissions, there were two lady students, Hindus 43, Muslims 8 and Christian 1. The average age of the student at the time of admission was 19·4. The total number of students after deducting 45 students passed out on 30th April, 1940, was 222 which included 5 lady students, Hindus 191, Mohammadans 29 and Christians 2.

The general health of the students is good. Those who are below the mark are kept under special observation and given all the necessary facilities. The results of the examinations held at the end of this session are satisfactory. The total expenditure of the School comes to Rs.1,24,473 for the year under review. The revenue of the School was Rs.19,980 ; low revenue of the School is due to the fact that students of the Agra Medical School pay fees which are considerably less than what are paid at even some ordinary educational institutions to say nothing of the Medical Colleges with M. B., B. S. standard. It was therefore decided to increase the fees from Rs.30 to Rs.120 per annum from the last session to commensurate to some extent with the standard of M. B., B. S., teaching now to be imparted.

The average cost to the Government per student per annum in the School was Rs.439·35 and the average number of students on the roll was 270 during the year 1939–40.

The athletic activities were well maintained.

It is the first time in the history of the Agra Medical School that women students are studying side by side with men students. The Agra Medical School Clinical Society which has been started in recent years is growing steadily and becoming more popular. The meetings are well attended by the students and staff of both the Medical Schools in Agra as well as by the local medical practitioners and the Journal of the Clinical Society is also becoming more popular amongst students of medical men outside.

Dr. P. N. Wahi was the Superintendent of the hostel during the year.

My thanks are due to all the members of the staff for their co-operation.

Three statements from A to C are appended.

AGRA :
The 7th May, 1939.

J. C. BHARUCHA, LIEUT.-COL., I.M.S.,
Principal, Medical School, Agra.

TABLE A

Table showing the nature and extent of practical training obtained by the students in the Agra Medical School during the year under report and two previous years

Year	Number of cases examined and treated before students		Number of operations performed before students	Number of dead bodies dissected by students	Practical Medical Jurisprudence		
	In-door patients	Out-door patients			Post mortems held before students	Injury cases examined before students	Number of times contents sent to the Chemical Examiner
1	2	3	4	5	6	7	8
1937-38 ..	5,758	65,097	4,026	37	82	290	23
1938-39 ..	6,520	69,287	4,815	43	60	258	12
1939-40 ..	6,177	64,768	4,849	46	81	377	11

AGRA :
The 7th May, 1940.

J. C. BHARUCHA,
LIUET.-COL., I.M.S.,
Principal, Medical School, Agra.

TABLE B

Table showing he result of examination in the Agra Medical School during the year under report and two previous years

Year	Membership Final Examination						Licentiateship Final Examination, Part II						Licentiateship Final Examination, Part I						Licentiateship Intermediate Examination						Licentiateship Primary Examination					
	Number appeared		Number passed		Percentage of passed		Number appeared		Number passed		Percentage of passed		Number appeared		Number passed		Percentage of passed		Number appeared		Number passed		Percentage of passed		Number appeared		Number passed		Percentage of passed	
	Regular examination	Re-examination	Regular examination	Re-examination	Regular examination	Re-examination	Regular examination	Re-examination	Regular examination	Re-examination	Reguar examination	Re-examination	Regular examination	Re-examination	Regular examination	Re-examination	Regular examination	Re-examination	Regular examination	Re-examination	Regular examination	Re-examination	Regular examination	Re-examination	Regular examination	Re-examination	Regular examination	Re-examination	Regular examination	Re-examination
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
1937-38 ..	14	1	5	1	35·72	100	67	21	33	17	49·24	80·96	54	12	29	10	53·73	83·33	76	18	33	15	44·21	83·33	30	2	28	2	93·33	100
1938-39 ..	3	1	1	1	33	100	43	30	24	20	55·81	73·3	47	27	28	23	59·57	85·18	63	33	23	25	36·50	75·75	28	3	26	3	92·85	100
1939-40 ..	..	..	..	..	..	..	57	27	24	21	42·10	87·5	51	21	31	14	60·78	66·66	54	35	24	26	44·44	74·29	..	3	..	3	..	100

AGRA :

The 7th May, 1940.

J. C. BHARUCHA, LT.-COL., I.M.S.,

Principal, Medical School, Agra.

TABLE C

Statement showing the finance and expenditure of the Agra Medical School during the year 1939-40

Heads of receipts	Income				Expenditure				
	1938-39	1939-40	Increase	Decrease	Heads of expenditure	1938-39	1939-40	Increase	Decrease
1	2	3	4	5	6	7	8	9	10
	Rs.	Rs.	Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
Receipts from other sources than Government :									
School fees ..	11,882	15,505	3,623	..	Establishment ..	78,220	99,190	20,970	..
Miscellaneous ..	3,589	4,475	886	..	Scholarships ..	884	832	..	52
					Contingencies ..	7,015	6,894	..	121
Total ..	15,471	19,980	4,509	..	Books and Periodicals for library.	1,000	500	..	500
					Prizes and Rewards ..	343	356	13	..
Receipts from Government	87,129	1,04,493	17,364	..	Travelling allowances ..	291	817	526	..
					Cost of medical stores ..	8,243	9,242	999	..
Total, Income ..	1,02,600	1,24,473	21,873	..	Petty repairs and construction.	6,604	6,642	38	..
					Total, Expenditure ..	1,02,600	1,24,473	22,546	673

J. C. BHARUCHA,
LIEUT.-COL., I.M.S.,

AGRA :

Annual Report on the working of the Thomason Hospital, Agra, from 1st April, 1939 to 31st March, 1940

THE work of the Hospital during the year under review has been satisfactory. The total number of patients treated during the calendar year 1939 as compared with 1938 was as follows :

	1938	*1939*
In-door	6,505	6,748
Out-door	69,731	68,655
Total ..	76,236	75,403

The in-door accommodation consists of 317 beds, viz. :

Medical wards	78
Surgical wards	63
O'Meara wards (Septic Surgical)	27
Female wards	56
Eye wards	56
Infectious wards	22
European private wards	9
Indian private wards	6

These beds are almost permanently occupied and the Superintendent is authorized to increase the accommodation by temporary additional beds if rush or circumstances demand. This was frequently necessary.

The Hospital Medical Staff during the period under report consisted of :

1. *Civil Surgeon aud Superintendent*—Captain S. Ahmad, I.M.S., 1st April to 3rd August, 1939.

Major M. R. Sinclair, I.M.S., 4th August, 1939 to 31st March, 1940.

2. *Physicians*—Lieut. Col. J. C. Bharucha, I.M.S.
Dr. G. N. Vyas, P.M.S.

3. *Surgeons*—Captain S. Ahmad, I.M.S.
Major M. R. Sinclair, I.M.S.
Dr. C. B. Singh, P.M.S.

4. *Ophthalmologist*—Dr. T. S. Shukla, P.M.S.

5. *Gynaecologist and Obstetician*—Dr. S. N. Chatterji, P.M.S.

6. *Medico-legal Officer and Assistant to Civil Surgeon*—Dr. Wahid-uddin, P.M.S.

7. *Resident Medical Officer and Assistant Superintendent*—Dr. A. M. Khan, P.M.S.

8. *Radiologists*—Dr. Satgur Dayal, P.S.M.S.

9. *Anaesthetist*—Dr. M. S. Kapoor, P.S.M.S.

In addition there are :

Paid House Surgeons	6
Paid House Physicians	2
Honorary Dental Surgeons	2
Honorary Lady Gynaecologist	1
Clinical Assistant	1
Honorary House Surgeons	12

The nursing staff consists of :

Matron and Nursing Superintendent—Mrs. Carman, K.-I.-H.

Senior Staff Nurse and Home Sister	1
Staff nurses	7
Probationer nurses	24

During the year under review :

The average number of nurses on duty was	28·67
The daily average sick during the year was	0·40
Vacancies	0·5

Apart from a separate building for the X-Ray Department and the "walling-in" of the back verandah of the Medical wards to accommodate another 16 beds, no new major constructive work was undertaken.

The buildings of the Hospital are scattered about an area of many acres and represent all types of familiar and unfamiliar architecture and possibly even of archaeological interest. Gothic arches and rooms with hermetically sealed clerestory windows predominate.

This year a grant was given for the temporary extension of the eye hospital and the treatment of rural patients in tent wards, pitched within the hospital compound. Four such tents were pitched, each accommodating 8 patients, and the increased influx of female eye patients was catered for by accommodation in three rooms of the Infectious wards, since the latter were not in use and no epidemic threatened.

As regards additions to apparatus, it is noteworthy that Agra was fortunate enough to be one of the first recipients of an "Iron Lung" through the generosity of Lord Nuffield.

A new Phillips X-Ray plant, which provides exceptional screening facilities, was also installed during the period and replaces a very old, yet exceedingly efficient apparatus of Heath Robinsonian design. An electrical cooling plant for maintaining even temperature for development of films was also installed.

Three refrigerators were installed in the Hospital and have replaced Ice boxes.

In regard to sera and vaccines, they have been sanctioned and given freely to all really deserving cases. The Sulphonamide group of drugs has reduced the amount of anti-streptococcal serum administered, but the increased cost of anti-tetanic and meningococcal serum has

seriously drained our grant for European medicines. We experimented with sera from all the reputable firms and eventually used only those which gave the best results. These, unfortunately, were also the most expensive, but the results justified their use.

The average cost of serum per case of cerebro-spinal meningitis works out at Rs.73-4-3, while the average cost of serum per case of tetanus works out at Rs.24 per patient with serum.

During the last year we also supplied locally made artificial limbs to selected and deserving cases and patients were obviously most gratified.

The patients are given a liberal diet with the addition of fruit in season and the milk supply has been thoroughly overhauled.

The routine working of the different sections and departments of the hospital shows an all round improvement. Difficulties which had been experienced and were the source of misunderstanding and inefficiency were overhauled and as far as possible rectified.

One of our main problems is a shortage of nursing staff and compounders. Considering the allotment of work expected of nurses under training, there being over 300 beds, the ratio is out of all proportion. The wards are in charge of Staff nurses, there being no sisters, and their number is inadequate. Night duty is done by four probationer nurses with one Staff nurse in charge to see to the care of 325 patients which is obviously unsatisfactory. Due to rush of work the nurses' training suffers and falls short of requirement.

It is extremely difficult to fill vacancies as can be seen from our latest experience with free advertising.

Seventy-five applications were received out of which only 16 were considered to answer the requirement for first standard of nursing. All 16 were communicated with but only one candidate sent in her complete application and was appointed.

The average age of Staff nurses is between 23 to 26 years which is considered too young an age for satisfactory ward management, discipline, etc. and the results would be better if sisters of maturer age were employed for such duties.

Nevertheless, the nurses' examination results have been good on the whole.

Number of nurses who passed the First and Final year examinations.

1939 :

First year ..	.. 3 passed out of 4 appearing ..	Average passes 71½ per cent.
Final year ..	.. 1 passed out of 3 appearing ..	

1940 :

First year ..	.. 1 passed out of 2 appearing.
Final year ..	.. 5 passed out of 5 appearing.

The Medical Section

Staff—Lieut.-Col. J. C. Bharucha, I.M.S.
Dr. G. N. Vyas, P.M.S.

The total number of in-patients treated in the Medical wards was 1,357 and total nunber of beds 78. Sixteen more beds were added by the enclosure of the back verandah, which is very suitable for winter use but rather too hot during the summer months. If and when overhead fans are installed these beds will solve the problem of overcrowding which sometimes becomes a necessity to cope with a rush of medical cases.

The use of the electro-cardiograph and fluorescent screen have been of great help in the study and diagnosis of cardiac cases. Most gratifying results were obtained in the treatment of pneumococcal pneumonias by M. and B. 693 and our results were published in the form of our editorial in the *School Clinical Society Journal*. Out of 85 pneumonias treated, 22 cases died—a 74·5 per cent. cure, taking into consideration the fact that many cases were admitted very late in the illness and in very serious condition.

Twenty-eight cases of cerebro-spinal fever were admitted during the year. The sulphanomide group of drugs was administered in conjunction with serum and the results were good.

The number of patients treated in the medical out-door was 10,382.

Staff—Dr. Wahiduddin, P.M.S.
Dr. G. N. Vyas, P.M.S. (Visiting Physician).
Dr. S. S. Kapoor, M.B., B.S. (Clinical Assistant).

No special remarks are necessary and the routine working of the Department was satisfactory.

Surgical Section

Staff—Captain S. Ahmad, I.M.S. (1st April, to 3rd August, 1939).
Major M. R. Sinclair, I.M.S. (4th August, 1939 to 31st March, 1940).
Dr. C. B. Singh, P.M.S.

The total number of patients treated was 1,810 in wards with a complement of 90 beds. These beds are equally distributed between the two surgeons in charge. Five hundred and ninety-five major operations were performed during the year and 738 minor.

There is an increasing demand on our surgical beds and during the winter season the verandahs are used for accommodating the overflow. There is often a waiting list even for deserving cases and it behoves me to say that numerous patients who can well afford the treatment in the private wards occupy beds in the general wards.

The Hospital has lately been equipped with a Hawley's fracture table and almost the complete equipment of Bohler's apparatus is available. The routine treatment of fractures has thereby been put on an improved footing and the results are far more satisfactory. Direct extension with Kirschner's wire or Steinman's pins has decreased the

number of cases needing operative interference later and the more frequent application of Plaster of Paris splints has decreased the average fracture patient's stay in hospital.

The Surgical wards are provided with a small clinical side room for everyday laboratory examinations.

The number of cases treated in the Surgical out-patient department was 10,696 with 686 operations performed.

Staff—Medical Officer in-charge, Dr. A. M. Khan, P.M.S.

Visiting Surgeon, Dr. C. B. Singh, P.M.S.

Ear, Nose and Throat Section

Total number of patients treated—10,646 with 191 operations performed.

Staff—Medical Officer in-charge, Dr. A. M. Khan, P.M.S.

The work has been satisfactory and a special effort is made to eliminate delay for the patients. Unfortunately this department is very understaffed and work would be facilitated by an increase in the number of compounders.

Emergency Department

Staff—Resident Medical Officer.

Emergency House Surgeons on duty.

Total number of patients attended	..	..	3,184
Total number of minor operations	..	..	467

The working of the department was efficient and the patients were attended to as soon after arrival as possible.

Female Section

This comprises Medical, Surgical, Obstetrical and Gynaecological indoor beds and a female out-patients department.

Indoor number of patients treated— 1,272

Medical	Surgical	Midwifery and Gynaecological
316	274	682

The Medical and Surgical beds are administered by the Medical and Surgical staff.

On the whole, the conditions prevailing in the Female ward are quite inadequate and unsatisfactory. In spite of a large Zenana Hospital in Agra, the Lady Lyall, our female section is always full to overcrowding. Numerous persons needing admission have to be refused and directed to the Lady Lyall Hospital. The nursing and menial staff are too small to cope with the work and each patient is accompanied by numerous relatives of both sexes. Although attempts are made to regulate visits to visiting hours, the small staff find it well nigh impossible to control the visitors who are found wandering in and out of the wards at all times of the day and camping in quite considerable numbers within the Hospital compound all night. Most of the complaints against the Hospital refer to this department and 98 per cent.

of them have their origin from disciplinary action taken by the staff in ejecting relatives. There being no children's ward in the Hospital, they are admitted into this section and it is no uncommon sight to see adult male and female relations, etc. lying asleep on the same bed as the little patient. Admonition and ejection invariably lead to letters of complaint to the Hospital authorities. By the open expression of views and insistence of personal interviews with complainants and their advocates I have reduced such criticism to a minimum.

The surgical side of the Female ward is to all intents and purposes a clinic for Bone Tuberculosis and beds are occupied for months at a time by the same patients. There is no remedy for this at the moment and none can be suggested.

Gynaecological and Obstetric Department

Staff—Medical Officer in-charge, Dr. S. N. Chatterjee.

Attendance—Daily average attendance for the year in the ward was 55·2.

Total number of patients treated for the last three years :

1937-38	..	..	..	625
1938-39	..	..	..	770
1939-40	..	..	..	682

Operations—Gynaecological operations performed this year were 222 as compared to 98 of last year. Besides the usual operations Gynaecological operations of all types have increased this year.

Labour Cases

Total number of labour cases confined—

	Normal	Abnormal	Total
1937-38	331	34	365
1938-39	403	43	446
1939-40	325	53	378

For want of a separate building these are given inadequate accommodation in the same building as the surgical and medical female cases. Through force of circumstances, septic midwifery cases are often nursed in the same ward as normal cases though an attempt is made to isolate the former in two godown wards holding 4 beds in all. I need scarcely elaborate on the objectionable aspects of such an arrangement and I feel that it is poor training for Medical students who are building the foundation of their medical career on such unsound principles. Overcrowding and inadequacy of sufficient trained nursing staff are the chief drawbacks to the efficient working of this department and more friction, misunderstanding and investigations are reported and required from the female section than from the rest of the Hospital put together. I can again offer no immediate solution under the prevailing circumstances.

Before leaving this department, however, I must state that the work done by a grossly overworked staff has been good and creditable despite the drawbacks mentioned above.

THE FEMALE OUT-PATIENT DEPARTMENT

Number of cases treated	.. ..	17,159

Staff—Medical Office:s, Dr. J. L. Jagota, M.S.M.F. (April to July, 1939).

Dr. B. W. Lyall, P.S.M.S. (July, 1939 to March, 1940).

HONORARY HOUSE SURGEONS

The working of the department was satisfactory despite the inadequacy of the building for the purpose.

GYNAECOLOGICAL OUT-PATIENT DEPARTMENT

The Female Gynaecological Out-patient Department is a small side room off the main Female Out-patient Department, it is far too small and unsuitable for the purpose.

The work done by the department is not very great and most cases naturally favour the Lady Lyall Hospital.

The Medical Officer-in-charge, Gynaecology and Midwifery wards is in charge of this department and attends three days in the week while an Honorary Lady Doctor, Dr. Dorab, takes the out-patients on the other three days. The work done is satisfactory but could be vastly improved if carried on in better surroundings.

The numbers are included in the attendance for Female Out-patient Department.

THE OPHTHALMIC DEPARTMENT

Total number of patients treated	.. ..	13,042
Total number of in-door patients treated	.. ..	1,607
Major operations performed	.. .. ..	887
Minor ditto	.. .. ..	812

Staff—Medical Officer-in-charge, Dr. T. S. Shukla, P.M.S.

In addition to the above, the Superintendent visits the Eye Department and operates on eye cases every Saturday morning.

The normal complement of beds for in-door patients in the Eye Department is 56. This number, by the addition of extra beds, is increased to as many as 150 in the winter months.

The provision, this year, of a temporary camp by the Rural Development Department, consisting of four tents with eight beds in each for male patients and 18 beds for female patients, was a special feature. The patients were comfortably housed in beds, on mattresses filled with grass for cheapness.

The extra staff employed was—

One paid compounder.

Two ward boys.

One sweeper.

One ayah.

One sweepress.

The Camp hospital during the three months of its existence treated 258 patients and 94 major and 49 minor operations were performed.

As elsewhere, during the winter large numbers of cataract cases attended the department. Trachoma and its complications and glaucoma were next in order of frequency.

Regular and careful perimetric examinations helped to reveal early cases of glaucoma and nervous disorders. In all doubtful and interesting cases, the slit lamp and Corneal microscope were made full use of. With early operative interference, some cases of perforating injuries of the eye were successfully treated. Intractable cases of Blepharo-Conjunctivitis were treated with remarkable success by the use of Liq. Tinctorium. Quite encouraging results were achieved by Corneo-scleral Trephining in several instances of Benophthalmos.

We were very anxious to purchase a diathermy set for electrolysis and operative treatment of detachment of retina but funds did not permit.

The working of the department was most satisfactory throughout the year and the staff carried out their duties with extreme efficiency.

The General Operating Theatre

The surgical work has increased considerably as can be judged by the comparative figures given below:

	1938–39	1939–40
Major operations	392	514
Minor operations	576	738

I have no doubt that these figures will continue to increase during the following year. The increase is mainly due to the more extensive orthopoedic work undertaken now in comparison to the older methods of racture treatment. All simple and compound fractures are manipulated and reduced on a special orthopoedic table under direct vision by means of a portable X-Ray plant. Extension by means of Kirsschner's wire, Steinman's pins, etc. is becoming almost a routine in the treatment of fractures requiring such interference. A combined medical and surgical ultra-violet wave diathermy set is installed in the theatre and appropriate medical and surgical treatment enables one to use the surgical diathermy knife as well as do various coagulating operations.

The theatre is well equipped with almost all necessary equipment for the average operations, met with in large Sadar Hospitals. Some of the equipment is however out of date and there is the inevitable large surplus of good and indifferent instruments. A whole-time anaesthetist, Dr. Kapoor, is incharge of the theatre and administers all anaesthetics. Latterly an Honorary House Surgeon has been attached to the theatre to assist him.

European Ward

Under the charge of the Superintendent and consists of a three simple bedded private rooms and a general ward contai ning six beds. The block is situated in almost the centre of the Hospital compound and there is little or no privacy. The roof is tiled and leaks in several places. The private rooms are dark and dismal and hermetically sealed clerestory windows complete the gloomy picture. It has been more than once remarked that the only rays of light penetrating this dreary atmosphere emanates from the nursing staff who do their utmost, howsoever tired they may feel, to bring cheer and a feeling of optimism to the patients so confined. I am in entire agreement. The nursing staff referred to consist usually of two probationer nurses who are also in charge of a 27-bedded septic ward situated about 100 yards distant. But for the presence of a small room which functions as the matron's office, and in which the matron is usally found on duty almost throughout the 24 hours, these patients who are charged between Rs.3 and Rs.10 per day according to means, would be almost neglected. It is understood that the necessity for maintaining this block as a European ward is in question in the new scheme. I can find no justification whatsoever for any doubt in regard to its necessity of existence.

This is the only place, apart from a very few others, in the whole province, which caters for Europeans and Indians living in European style. Its popularity has increased beyond all recognition and there have been times when we have had to accommodate two patients in one small private room. In 1938, 74 patients were treated, in the year 1939 94 and in six months of 1940, 60 patients have already been admitted.

Five maternity cases were delivered in 1938, four in 1939 and 12 in the first half of 1940. I hazard a guess that these figures are not much below those of the Ramsay Hospital. I have no doubt the annual figures for 1940 will show a considerable increase. It is relevant to ask where these patients as well as senior Government officials would or could be treated if the European ward was abolished.

Furthermore, this ward is one of the few really paying units in the hospital and a definite source of income to Government.

The General Stores

We consider our annual grants adequate for ordinary times but due to the enormous rise in prices owing to the War they are bound to be found grossly inadequate in the future and I feel that considerable difficulty wi l be experienced unless there is a chance of enhancement. It compels me to say that since the introduction of a Stores Purchase Department it has been found that there is a greater delay in obtaining stores, higher prices are paid in a number of cases and far inferior articles obtained, in most cases has been the rule rather than the exception and has caused much dislocation in the hospital work and efficiency.

The X-Ray and Electro-therapeutic Department

Staff—Medical Officer-in-charge, Dr. Satgur Dayal, P.S.M.S.

As already stated, a new X-Ray apparatus was added to this hospital which allows of screening and taking of dental pictures. After a certain amount of initial trouble and alterations, the apparatus is now working satisfactorily and giving excellent results. X-Ray treatment is, however, not done for want of special appliances and adequate experience. The Electro-therapeutic Department administers ultra-violet rays, infra-red and all forms of ionization and diathermy and it is hoped to instal a Pantostat in near future.

The department is exceedingly hard worked and it was decided to curtail expense by limiting X-Ray pictures and encouraging Medical Officers and House Surgeons to view their cases under the flourescent screen and thereby effect a saving on films. This has proved a great saving and is now a routine.

Indian Private Wards

The Indian private wards are in charge of Dr. C. B. Singh, P.M.S., who allots rooms with the Superintendent's permission. The block consists of six wards in a row, each private ward having a main room, a back verandah and an enclosed courtyard with kitchen and a lavatory. The main rooms are supplied with overhead fans. The total number of patients treated during the year was 95. The daily charges for all class of patients is Re.1 per day *plus* actual electric charges.

It is obvious therefore that the wards not only remain permanently occupied but we usually have a "Waiting list." Their number is grossly inadequate for a town of the size of Agra and we could easily fill another six such wards which are badly needed.

Dental Department

The Dental Department is run by two Honorary Dental Surgeons:

Dr. A. N. Baijal, B.D.SC., Lahore.

Dr. C. B. Sood, L.D.SC., Karachi.

During the year under report 3,341 cases were attended to and included 1,565 extractions.

The Medical Officers attend the department on alternate days. It can be seen that the cases treated are chiefly those needing teeth extraction, scaling or lancing of gum boils and these operations amounted to 1,763 of the total patients treated.

M. R. SINCLAIR,
Major, I.M.S.,
Superintendent,
Thomason Hospital, Agra.

Annual Report of the Agra Women's Medical School for the year 1939-40

I—Principal

Dr. U. F. M. Morton, M.D. (London), W.M.S., held charge throughout the whole session.

From 1st May, 1940, this school has been closed, vide G. O. no. 428, dated the 22nd February, 1940.

II—Buildings

The annual repairs of the buildings and electric installation were carried out satisfactorily.

III—Lectures and Practical Teaching

I. Gynaecology—Lectures and clinical teaching were given by Dr. U. F. M. Morton, M.D. (London), W.M.S.

II. Midwifery—Lectures and routine teaching were given by Dr. Morton, W.M.S. Practical instruction in the labour room was given by the Principal and members of the Hospital teaching staff. Maternity cases numbered 1,426 of which 190 abnormal and abortions 465.

III. Surgery and Ophthalmology—Lectures and clinical teaching were given by Dr. E. Wingate, W.M.S.

IV. Medicine—Lectures and clinical teaching were given by Dr. D. C. R. Vethavanam, M.B., B.S. (Madras), D.M.C.W. (Cal.), L.R.C.P., M.R.C.S. (London), D.C.O.G. (London) M.R.C.P. (London).

V. Pathology—Lectures and practical teaching were given by Dr. I. M. Massick, W.M.S., up to 1st October, 1939, and from 2nd October, 1939 to 4th March, 1940, by Dr. H. B. Patil, W.M.S., and from 5th March, 1940, to end of session by Dr. A. Chacko, M.B., B.S. (Madras), L.R.C.P., M.R.C.S. (Eng.), W.M.S.

Statistics

The total number of Pathological reports of these blood counts numbered (of which 176 were anaemias of pregnancy)	810
Examination of clinical materials (sputa, blood, stools, smears, urine, etc.)	2,593
Specimen added to museum	20
Cerebro spinal fluid examination	23
Ascitic fluid	34
Urea concentration test	5
Kahn test	500
Widal test	31
Blood groupings	8
Blood culture	7
Pus examination	62
Gastric analysis	8

VI. Medical Jurisprudence—Lectures were given by Dr. I. M. Massick, W.M.S., up to 1st October, 1939, and from 2nd October, 1939, by Dr. H. B. Patil, W.M.S., From 5th March 1940, up to the end of session by Dr. A. Chacko, W.M.S. Twenty-three bodies were received for medico-legal post-mortem examination. Demonstrations on these and on a large number of other medico-legal cases were given to the students.

VII. Hygiene—Lectures were given by Dr. D. C. R. Bethavanam, W.M.S., throughout the whole session.

VIII. Operative Surgery—Classes were given by Dr. E. Wingate, W.M.S.

Operations performed before students numbered 3,643 including 100 abdominal sections, these figures include operations both in Lady Lyall and Maternity Hospitals.

IX. Anatomy—Lectures were given by Dr. G. DaCosta up to 31st October, 1939, after that period the class closed.

Demonstrations were given by Miss Sara Thomas up to 31st October, 1939.

X. Physiology—Lectures and demonstrations were given by Dr. G. DaCosta up to 31st October, 1939, after that period the class closed.

IV—Attendance of students

The attendance of students at lectures and in the wards was good. At the opening of the session there were 57 students on roll. One was granted leave, thus the total became 58 graded as under :

Fourth year	19
Third year	26
Second year	13
	58

Of these 58, 22 were Christians, 28 Hindus, 5 Muhammadans and 3 Sikhs.

Removal—Two students left on account of ill-health, 3 students transferred to Medical School, Agra, and 14 passed the final qualifying examination, there remain :

Fourth year	23
Third year	16
	39

The general health of the students throughout the year has been satisfactory.

V—Examination

Medical Faculty examination

Final examinaton, Part II—Ten students appeared in October, 1939, 6 passed and 4 failed.

Twelve students appeared in April, 1940, 8 passed and 4 failed.

Fifteen students appeared in Part I in October, 1939, 11 passed and 4 failed.

Fourteen students appeared in April, 1940, 7 passed and 7 failed.

Intermediate examination—Eleven students appeared in October, 1939, 8 passed and 3 failed.

VI—GENERAL

The Viceroy's Silver Medal for General Proficiency has been awarded to B. T. Joseph.

Lady Dufferin Prize for clinical Medicine and Surgery has been awarded to B. T. Joseph.

Raja Tasadduq Rasul Khan's Prize of a bronze medal and a case of surgical instruments for Surgery has been awarded to B. T. Joseph

Dr. Kanauji Lal's Prize of silver medal for Gynaecology and Midwifery has been awarded to B. T. Joseph.

Establishment

Principal—Dr. U. F. M. Morton, M.D., B.SC. (LOND.), M.R.C.S., L.R.C.P., D.T.M. & H., W.M.S.

Lecturer in Surgery—Dr. E. Wingate, M.B., B.S. (LOND.), W.M.S.

Lecturer in Medicine and Hygiene—Dr. D. C. R. Vethavanam, M.B., B.S. (MADRAS), D.M.C.W. (CAL.), L.R.C.P., M.R.C.S., M.R.C.P., D.C.O.G. (LOND.), W.M.S.

Lecturer in Pathology and Medical Jurisprudence—Dr. A. Chacko, M.B., B.S. (MADRAS), L.R.C.P., M.R.C.S. (ENG.) W.M.S.

Lecturer in Anatomy and Physiology—Dr. G. DaCosta (up to 31st October, 1939, then granted leave, vide G. O. no. 1000/V—138, dated the 27th April, 1939.)

Demonstrator—Miss Sosan Singh (Pharmacy), up to 30th April, 1940.

Demonstrator—Miss Lajjawati Mehta (Pathology), up to 30th April, 1940.

Demonstrator—Miss Sara Thomas (Anatomy), up to 31st October, 1939.

Superintendent of Hostel—Mrs. E. C. Munro, up to 24th April, 1940, then granted leave preparatory to retirement.

The Office—Pandit Shanker Nath, Head Clerk.

M. Muhammad Khan, Second Clerk.

The work of Head Clerk has been quite satisfactory.

E. WINGATE, W.M.S.,
Acting Principal,
Women's Medical School, Agra.

AGRA :
The 8th June, 1940.

TABLE A

Table showing the nature and extent of practical training obtained by the students in the Women's Medical School, Agra, during the year under report and two previous years

Year	Number of cases examined and treated before students		Number of dead bodies dissected before students	Number of operation performed before students	Practical medical jurisprudence		Number of times contents sent to the Chemical Examiner
	In-door patients	Out-door patients			Post-mortems held before students	Injury cases examined before students	
1	2	3	4	5	6	7	8
1937-38 ..	3,689	47,271	6	2,668	30	58	2
1938-39 ..	3,790	56,521	7	2,997	33	66	7
1939-40 ..	3,601	62,427	..	3,642	23	58	..

AGRA :
The 8th June, 1940.

E. WINGATE, W.M.S.,
Acting Principal,
Women's Medical School, Agra.

TABLE B

Table showing the result of examination in the Agra Medical School during the year under report and two previous years

Year	Licentiateship Final Examination						Licentiateship Final Examination, Part I						Licentiateship Intermediate Examination						Licentiateship Primary Examination					
	Number appeared		Number passed		Percentage of passed		Number appeared		Number passed		Percentage of passed		Number appeared		Number passed		Percentage of passed		Number appeared		Number passed		Percentage of passed	
	Regular examination	Re-examination	Regular examination	Re-examination	Regular examination	Re-examination	Regular examination	Re-examination	Regular examination	Re-examination	Regular examination	Re-examination	Regular examination	Re-examination	Regular examination	Re-examination	Regular examination	Re-examination	Regular examination	Re-examination	Regular examination	Re-examination	Regular examination	Re-examination
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
1937-38	15	9	9	7	60·00	77·77	14	4	7	2	50·00	50·00	17	5	9	3	52·94	60·00	16	7	14	7	87·50	100·00
1938-39	10	7	6	4	60·00	57·14	13	10	9	6	69·23	60·00	19	17	10	12	52·63	70·58	..	2	..	2	..	100·00
1939-40	12	10	8	6	66·66	75·00	14	15	7	11	50·00	76·66	..	11	..	8	..	72·72	..	..	..	..	..	..

AGRA :
The 8th June, 1940.

E. WINGATE, W.M.S.,
Acting Principal, Women's Medical School, ***Agra.***

TABLE C

Statement showing the finance and expenditure of Agra Women's Medical School, during the year 1939-40

Heads of receipts	1938-39	1939-40	Increase	Decrease
	Rs.	Rs.	Rs.	Rs.
Receipts from other sources than Government Countess of Dufferin's Fund (Scholarship).	4,291	2,572	..	1,719
Mathura Bai Endowment	36	36	..	..
Ram Piyari Endowment	15	15	..	..
Raja Tasadduq Rasul Khan's Endowment.	50	51	1	..
Rani Mehtab Koer's Endowment ..	167	165	..	2
Total ..	4,559	2,839	1	1,721
Receipt from Government ..	44,601	42,372	..	2,229
Total ..	49,160	45,211	..	..

Heads of expenditure	1938-39	1939-40	Increase	Decrease
	Rs.	Rs.	Rs.	Rs.
Establishment	34,560	32,895	..	1,665
Scholarship to women students ..	4,494	2,839	..	1,655
Contingencies	9,774	9,106	..	668
Travelling allowance	..	75	75	..
Cost of medical stores	246	210	..	36
Prizes	86	86	..	..
Total ..	49,160	45,211	75	4,024

E. WINGATE, W.M.S.,

Acting Principal, Women's Medical School, Agra.